

**Defense Information Infrastructure (DII)
Common Operating Environment (COE)**

**Installation Procedures (IP)
for the
Joint Meteorological and Oceanographic (METOC) Viewer
(MCJMV)**

Release 3.7 Series

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1 SCOPE

1.1 Identification

This Installation Procedures (IP) describes the installation of the Joint Meteorological and Oceanographic (METOC) Viewer, Version 3.7 Series - MCJMV 3.7 (also referred to as JMV 3.7 in this document), which is delivered as a Defense Information Infrastructure (DII) Common Operating Environment (COE) Application Segment. This document has been developed in accordance with DII COE Developer Documentation Requirements (DDR-2).

- IBM-Compatible Personal Computer (PC) running Microsoft Windows NT 4.0 with Service Pack 6, or higher, Windows 98, Windows 2000, or Windows XP.
- Sun SPARC computer running the Sun Solaris operating system, version 8. (The initial release of JMV 3.7.0.0 does not include a Solaris build)

1.2 System Overview

JMV displays METOC data and information in traditional formats used by forecasters to conduct their business. General forms include maps containing contours, plots, and other weather depictions of METOC variables, cross-sections of ocean and atmospheric variables, plots of vertical variation of METOC variables such as bathythermographs and atmospheric soundings, time series, and time sections depicting measured or forecast changes in METOC variables at selected points. Overlays of weather depictions on satellite imagery facilitate analysis of environmental conditions. Looping of several of these products enhances the forecaster's ability to understand the dynamic aspects of the changing environment.

Fleet Numerical Meteorology and Oceanography Center (FNMOC) has been assigned Space and Naval Warfare Systems Command (SPAWAR) SPACETASK 185-FNOC-98-1 (OPN)-0. Under this SPACETASK, FNMOC is tasked to integrate JMV to run as a METOC application in the Tactical Environmental Support System (Next Century) [TESS (NC)]. The integration includes both user interfaces and communications using World Wide Web technologies

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2 REFERENCED DOCUMENTS

2.1 Government Documents

DDR-2 23 January 1998	<i>Defense Information Infrastructure (DII) Common Operating Environment (COE) Developer Documentation Requirements, Version 2.0, Defense Information Systems Agency, Joint Operability and Engineering Organization</i>
MCJMV.PENTIUM.NT40.3_7_0_0.UG.doc 20 December 2002	<i>User Guide (UG) for the Joint METOC Viewer (JMV), release 3.7 Series</i>
MCJMV.PENTIUM.NT40.3_7_0_0.SVD.doc 20 December 2002	<i>Software Version Description (SVD) for the Joint METOC Viewer (JMV), Release 3.7.0.0.</i>
MCCLNT.PENTIUM.NT40.1_7_0_0.IP.doc 20 December 2002	<i>Installation Procedures (IP) for the METCAST Client Segment, release 1.7 Series.</i>
MCCLNT.PENTIUM.NT40.1_7_0_0.UM.doc 20 December 2002	<i>User Manual (UM) for the METCAST Client Segment, release 1.7 Series</i>
MCSRVR.SUN.Solaris28.3_2_0_0.IP.doc 17 August 2001	<i>Installation Procedures (IP) for the METCAST Server Segment, release 3.2 Series</i>
MDMETC.SUN.Solaris28.1_2_0_0.IP.doc 10 August 2001	<i>Installation Procedures (IP) for the METOC Observations Database (MDMETC) Segment, Release 1.2 for Solaris</i>
MDCHNL.SUN.Solaris28.1_2_0_0.IP.doc 10 August 2001	<i>Installation Procedures (IP) for the METOC Channels Database (MDCHNL) Segment, Release 1.2 for Solaris</i>

2.2 Non-Government Documents

None.

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3 SYSTEM ENVIRONMENT

3.1 System Requirements

3.1.1 Hardware Requirements

The JMV segment is hosted on an IBM-Compatible Personal Computer (PC) or a Sun Workstation.

The following configuration is recommended:

RAM: 128 MB minimum, 512 MB optimum

Available Disk Space: 2 GB

3.1.2 Operating System Requirements

Microsoft Windows NT 4.0 with Service Pack 6 or higher, Windows 98, Windows 2000, Windows XP, or Sun Solaris version 8.

3.1.3 Kernel Requirements

Not applicable.

3.2 System and Site Preparations

3.2.1 System Configuration

The appropriate operating system (as described above) must be properly installed prior to loading the JMV segment. JMV also requires the METCAST Client Segment if METCAST is to be used to download JMV data. See the *METCAST Client Installation Procedures* documentation referenced in Section 2.1 for details concerning installation of METCAST Client.

Note also that in order to operate properly METCAST Client requires access to an installed METCAST Server.

3.2.2 Operating System Preparation

Information needed to prepare the operating system is found in the internal documentation for Windows XP, Windows NT 4.0 with Service Pack 6 or higher, Windows 2000, Windows 98, or Sun Solaris version 8.

3.2.3 Tape/Disk Preparation

The JMV segment software is delivered on a CD-ROM for the PC and Sun hardware environments. It is also available on the World Wide Web at <http://www.fnmoc.navy.mil> under the Software and Manuals link (password required).

4 INSTALLATION INSTRUCTIONS

The following procedures describe the installation of the JMV Segment software on the various target platforms. Note that in some instances, **administrator privileges** may be required to successfully install the software.

4.1 Installation on PC (Windows XP, NT 4.0, 2000, Windows 98) Systems

4.1.1 CD-ROM Booting Procedure for Windows Systems

1. Insert the CD-ROM containing the JMV software into the CD-ROM drive. If autorun is turned on for the CD-ROM, the disk will spin and the METCAST Client, JMV, and Quick Weather setup program will start automatically. Otherwise:
2. Click on the **Start** button at the lower left side of the screen.
3. Click on **Settings**.
4. Click on **Control Panel**.
5. Click on **Add/Remove Programs**.
6. Ensure the **Install/Uninstall** tab is selected and click on the **Install** button.
7. Click on the **Next** button.
8. The Command Line box in the next dialog should show `D:\SETUP.EXE` (assuming D is the letter assigned to the CD-ROM drive). If it does, click the **Finish** button to commence installation. When the setup program executes, the METCAST Client/JMV installation screen shown below will appear.



Figure 1. Installation Screen for METCAST Client and JMV

To install JMV, click on the **Install JMV** button. Proceed to Section 4.1.3.

4.1.2 Booting Procedure for Web Download Version for Windows Systems

1. Using a web browser, go to <http://www.fnmoc.navy.mil>. Level I or II access is required to obtain the software. After logging in, navigate down to the Software and Manuals section in the left-hand menu, then click on the **Software and Manuals** link. On the page showing the available software, click on the yellow Download button for the latest version of JMV 3.7.x.x. (x.x being the minor version numbers). Download the installation program to a temporary directory on your hard drive.
2. Close the browser and navigate to the directory where you downloaded the file. Double click on the JMV Installation file and follow the directions given by the installation program.

4.1.3 Installation on Windows Systems

1. Upon execution of the setup file, a Welcome window will appear to start the installation process. Click on the **Next** button.
2. A Choose Destination Location window will appear. It is recommended that you click on the **Next** button to accept the default settings. A progress dialog will appear to show you the progress of the installation.
3. At the final JMV Installation Completed window, you may either click on the **Finish** button to finish the installation, or click the **Launch JMV Now** checkbox to select it and then click the **Finish** button to start JMV. You may also click on the **View Readme.txt file** checkbox,

then click on the **Finish** button to finish the installation and view the readme.txt file. This completes the installation.

4. Click on the **Exit** button in the METCAST/JMV installation window to close it.

4.2 Installation on Sun Solaris Systems

The following procedure is used to install both METCAST Client and JMV on Sun Solaris systems.

Note: If installing METCAST Client for use in a Regional Center configuration, that is, to use the METCAST Client to feed data to a METCAST Server, please refer to the METCAST Client Installation Procedures document, which is referenced in Section 2.1.

4.2.1 Remove Old Installations

The installation program for the Sun Solaris version of JMV and Metcast Client will search the installation directory (selected by the user) and delete existing versions of JMV and Metcast Client.

IMPORTANT NOTE: Before proceeding with the installation, the user may wish to save various files and directories from a previous version of Metcast or JMV. These files and directories are discussed below.

- **AREA Directories (defined areas).** To avoid recreating area definitions that are lost when Metcast and JMV have been uninstalled, the user may wish to save the area directories to a different directory, and then manually append them to the new `jmvwin\noddsfls` directory after the latest software is installed. Area directories are located within the `jmvwin/noddsfls` directory and contain the area definitions as well as any data that has been previously downloaded for that area. Area directories are named with the first eight letters of the area name (e.g. a defined area named NORTHAMERICA would have an associated area directory called NORTHAME).
- **MAILCAP File.** Users who have modified an existing Mailcap file to feed other applications may wish to save this file to a different directory and then manually append the modifications to the new Mailcap file after the new software has been installed.
- **METCAST.CON File (Server configuration file).** The `metcast.con` file is located within the `jmvwin\noddsfls` directory and contains the server configuration settings that were previously input by the user. Users who have configured Metcast Client to access multiple servers may wish to save this file to a different directory, and then manually copy it into the new `jmvwin\noddsfls` directory.

- **TOOLBIN.DAT File.** The toolbin.dat file is located within the jmvwin\noddsfls directory and contains the configuration settings for the JMV Drawing Tool features, including all settings previously customized by the user. If you **do not** wish to lose your existing toolbin setting, then save the toolbin.dat file to a different directory before installing the new Metcast\JMV software. After the new software has been installed, copy the saved toolbin.dat file into the jmvwin\noddsfls directory and your previous toolbin settings will be restored.

4.2.2 Install METCAST Client, JMV from CD or Web

METCAST Client and JMV for Solaris, are both available on CD-ROM or as web downloads. In either case, the installation procedure is basically the same.

CD-ROM installation preliminary steps:

1. Insert the CD-ROM in the reader and open it.
2. Double-click on the install.bin program to start the installation.

Web installation preliminary steps:

1. Download the install.bin package.
2. Enter the following command: `chmod u+x install.bin`. This extends execution permission to the program.
3. Enter the command `./install.bin` to start the installation.

After completing the preliminary steps listed above for either the CD-ROM install or the WEB install, the following events will occur:

- A line of text will appear, stating that the system is preparing to start Install Anywhere. It may take several minutes for the first installation window to appear on the screen.
- A **Preparing to Install...** screen will appear while the installation software initializes, then a **METCAST-JMV** install screen will be displayed. Click on the **Next** button to proceed.
- A **Choose Install Folder** dialog window will open, asking the user to select the directory in which to install JMV and METCAST. A default installation directory will be displayed within the text box. You may either accept this location, or may click on the **choose...** button to see a directory tree from which you can choose a directory. Click on the **Install** button to proceed.
- The installation program will search the selected installation directory for existing versions of Metcast and JMV. If existing software is found, it will be overwritten. A

status bar will appear, showing the progress of the installation, followed by a final dialog box when the installation is complete. Click on the **Done** button to exit the installation program.

4.3 Installation of Upgrades

Installation of upgrades will generally follow the same procedures listed above.

4.4 Installation Verification

The Windows NT Add/Remove Programs item under the Control Panel can be used to verify the presence of the software in the directories to which it was installed

4.5 Initializing the Software

No initialization is specifically required.

4.6 List of Changes and Enhancements

This section is tailored out. Changes and Enhancements are listed in Appendix B of the *Software Version Description*, cited in Section 2.1.

4.7 Important Considerations

This section is tailored out.

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5 NOTES

5.1 Glossary of Acronyms

COE	Common Operating Environment
DII	Defense Information Infrastructure
FNMOCC	Fleet Numerical Meteorology and Oceanography Center
GUI	Graphical User Interface
HTTP	Hyper-Text Transfer Protocol
IP	Installation Procedure
IP	Internet Protocol
JMV	Joint METOC Viewer
METCAST	METOC Broadcast
METOC	Meteorological and Oceanographic
MIME	Multipurpose Internet Mail Extensions
PC	Personal Computer
SRS	Software Requirements Specification
SVD	Software Version Description
T&E	Test and Evaluation
TCP	Transport Control Protocol
UM	User Manual

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